Lanier Worldwide, Inc.
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Atlanta, GA 30345-2979
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MATERIAL SAFETY DATA SHEET

Section 1: Chemical Product and Company Information

Identity:	**Developer for 5112**	MSDS No.	**FX-067**
Product ID:	480-0007	Issued:	02/06/2004
		Supersedes:	**01/11/2001**
Synonyms		**Date:**	**02/06/2004**
& Common	Black Developer for 5112, 4900	**Prepared by:**	**Lanier Worldwide, Inc.**
Names:	Lanier	**Approved by:**	Larry Choskey, EH&S Manager, (770) 496-9500
		European Contact:	**Lanier Worldwide**, Inc.
Uses:	Lanier 5112, 4900		Walter Fricke, Manager, Safety & Environment
Chemical			Im Taubental D-41468 Neuss, Germany
Formula:	Mixture		+49-2131-387-177

Section 2: Composition / Information on Ingredients

	PERCENT	CAS No.	EXPOSURE LIMITS	SOURCE
Ferrite	95	1309-37-1	N/a	N/a
		1317-38-0	N/a	N/a
		1314-13-2	15mg/m^3 10mg/m^3	OSHA PEL ACGIH TWA

Styrene acrylic polymer

*PEL as the product: 15mg/m^3 (total dust), 5mg/m^3 (respirable dust)
*TLV as the product: 10mg/m^3 (total dust), 5mg/m^3 (respirable dust)

Section 3: Hazards Identification

HMIS Rating:

FLAMMABILITY = 1	HEALTH = 1
REACTIVITY = 0	SPECIAL = none

Health Hazards (Acute, Chronic, Immediate and Potential): Minimum irritation to respiratory tract may occur as with exposure to any non-toxic dust. May cause gasping if inhaled. Inhalation should be avoided. May cause temporary eye discomfort.
Health Hazards of Long Term exposure (Chronic): A manufacturer sponsored chronic inhalation study in rats using a special test toner revealed there were no lung changes at all in the lowest exposure level (1mg/m^3), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4mg/m^3), while a slight degree of fibrosis was observed at the highest exposure level (16mg/m^3) in all animals. These findings are attributed to "Lung Overloading", a generic response to excessive amount of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toner to comply with EPA testing protocol and would not function properly in Xerographic equipment.

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 4: First Aid Measures

Inhalation:	Remove to fresh air if effects occur. Gargle with water. Get medical attention if needed.	**Eye Contact:**	In case of contact, immediately flush eyes with water for 15 minutes. Get medical attention if needed.
Skin Contact:	Wash with soap and water.	**Ingestion:**	Dilute stomach contents with several glasses of water. Get medical attention if needed.

Section 5: Fire Fighting Measures

Suitable extinguishing media: CO_2, dry chemical, foam or water.
Extinguishing media which may not be used for safety reasons: none
Unusual Fire and Explosion Hazards: Toner material, like most organic material in powdered form, is capable of creating a dust explosion.
Flammability: Non-flammable solid The decomposition products are CO, CO_2, and No_x. Avoid inhalation of smoke.
Special protective equipment for fire fighters: none
UEL: n/a LEL: n/a

Section 6: Accidental Release Measures

Spill / leak Procedures: If spilled, sweep up using an approved toner vacuum with a 0.5 micron filter or smaller, such as the Atrix AAA Toner Vacuum or 3M Toner Vacuum. Use of a vacuum cleaner not rated for toner particles, could result in a fire or personal injury. Remove residue with soap and cold water.
Miscellaneous: Keep product out of sewers and watercourses.
Personal protection: Avoid inhalation of dust.

Section 7: Handling and Storage

Special Handling:	Cleanse skin after contact before breaks or meals, and end of workday.
Special Storage:	Store in a cool, dry place. Avoid direct sunlight. Keep out of reach of children. Keep from contact with oxidizing materials.
Miscellaneous:	Do not handle in windy areas. Flying powder may enter eyes. Minimize inhalation of dust. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work periods.

Section 8: Exposure Control and Personal Protection Information:

Respiratory Protection: none required under normal use. Hand Protection: none required under normal use.

Eye Protection: none required under normal use.
Ventilation: Local exhaust equipment is needed. Skin Protection: none required under normal use.
Exposure Guidelines: USA OSHA (TWA/PEL) : 15mg/m^3 (Total Dust); 5mg/m^3 (Respirable fraction)
ACGIH (TWA/TLV) : 10mg/m^3 (Total dust); 3mg/m^3 (Respirable fraction)
DFG (MAK) : 4mg/m^3 (Inhalable fraction); 1.5mg/m^3 (Respirable fraction)

Section 9: Physical and Chemical Properties

CHARACTERISTICS:

Appearance:	Black	Melting point:	116?C
Form:	Fine Powder	Vapor pressure:	n/a
Odor:	Odorless	Vapor density:	n/a
Solubility in Water:	Negligible	Evaporation rate:	n/a
Density:	4.0	Boiling point:	n/a

Section 10: Stability and Reactivity

Conditions to avoid: none Materials to avoid: none Stability: Stable
Hazardous decomposition products: CO and CO2 and other decomposition products when burned.

Section 11: Toxicological Information:

Acute Toxicity: Inhalation: (Data from similar material without ferrite): LC50:>5.46mg/L/4hr (rats) (Mean maximum attainable concentration)
Ingestion: (Data from ingredients of toner): LD50:>2.0g/kg (rats)
Eye: (Data from ingredients of toner): Mild, according to OSHA Haz Com Standard and EU Directive 67/548/EEC based on test data of rabbits.
Sensitizer: No sensitizer according to Annex I of EU Directive 67/548/EEC and strong sensitizer list of FHSA.
Mutagenicity: Ames test negative
Reproductive Toxicity: No reproductive toxic substances according to Annex I of EU Directive 67/548/EEC, California Proposition 65 and DFG.
Carcinogenicity: N/a. Not listed in NTP, OSHA(USA) regulation, California Proposition 65 and Annex I of EU Directive 67/548/EEC.

Section 12: Environmental / Ecological Information

No information indicating any adverse ecological effects.

Section 13: Disposal Consideration

Used developer should be disposed of under conditions that meet all federal, state and local environmental regulations. Disposal regulations vary from locality to locality, therefore consult your local Lanier office or the EPA to determine the proper method for disposal. Do not incinerate loose or spilled developer.

Section 14: Transportation Information

None. This is not a hazardous product.

Section 15: Regulatory Information

SARA Title III, 313: n/a
This product consists of chemical substances that are included in the TSCA inventory.
WHMIS Legislation (Canada): This product is not a controlled product.

Section 16: Miscellaneous Information

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. *On the basis of the data available to us, this product is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.*

Judgment as to the suitability of information contained herein for user's purposes is the responsibility of the purchaser. Therefore, although reasonable care has been taken in the preparation of this information, Lanier Worldwide, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to user's intended purposes or for consequences of its use. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards that exist.

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